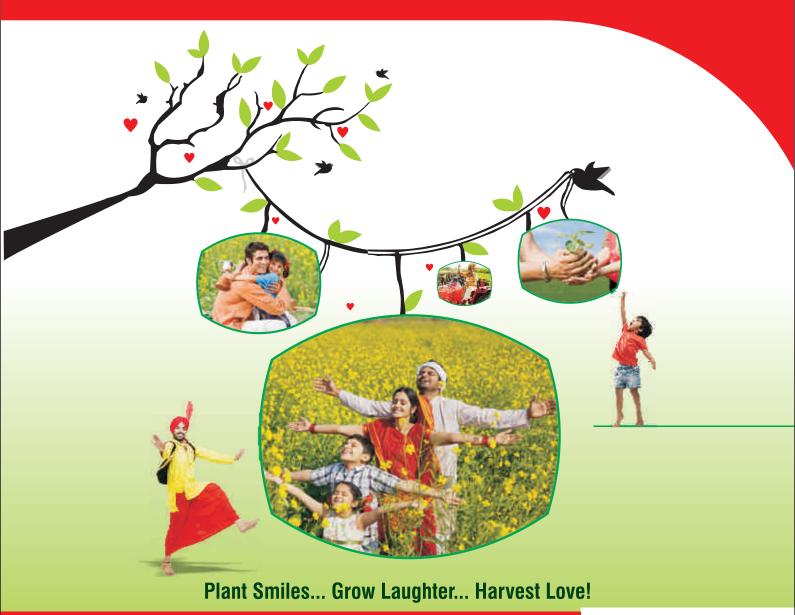


CROP PROTECTION OFFERINGS

An advanced tool towards global food security



We Keep Crop Healthy, to Keep Farmer Wealthy









Corporate overview

SWAL Corporation Limited (formerly known as Shaw Wallace Agrochemicals Limited) is one of the pioneers in the Indian Agrochemical Industry. Committed to the progress of Indian farmers for more than nine decades, our core competency lies in marketing of pesticides and fertilizer mixtures. We are a major player in the industry, enjoying a leadership position in branded sales of Acephate (Starthene) and Ethion (MIT 505). We also have the highest market share in Organic Fertilizer segment in major consuming states of Kerala and Maharashtra with brand name Sterameal.

Our People to Farmer (P2F) team encompasses an All-India sales and distribution network comprising of 150 Plus expert technocrats in the field. Apart from marketing our products, the field force demonstrates their right usage by interacting with the farmers on all aspects of farming technology.

We have a well orchestrated distribution network spanning 24 stock points and about 4000 dealer outlets ensuring availability of our products at the right time and the right place. Together we ensure that farmers get quality product at a most competitive price.

Our Mission

Swal Corporation Limited promotes Integrated Pest Management as a mean of improving of farmer's livelihood by increasing the productivity and quality of the produce, while sustaining the environment and natural resources for future generation.

- To propel the growth of the agrochemical market through world class products
- ✓ To anticipate and meet the changing needs of our demanding customers
- ✓ To nurture, develop and empower our people and vendors
- ✓ To maintain meticulous standards in quality, cost and distribution
- ☑ To imbibe a work culture conducive to performance through networking

Our Vision

Swal Corporation Limited aims at promoting the best possible combination of measure —Chemical, biological and cultural — to deliver cost effective, environmentally sound and socially acceptable methods of increasing productivity, managing insects, disease and weeds. We thrive on current and new business opportunity while leveraging our core competences of human capita, quality and integrity.

Future Thrust

SWAL Corporation is committed to customer delight by providing high quality products and best service at competitive price. We shall strive to do this by regularly enhancing our product portfolio through:

- Continuous updating of technology and resources.
- Recognizing and deploying talent through empowerment of people.
- ✓ Capturing market information and Knowledge Management.
- Using efficient supply chain measures to meet the market requirements.



VALUE CHAIN OFFERINGS

Soil health and Crop nutrition

Adjacent Technologies Seed Treatment Crop Protection Insecticide Fungicide Herbicide

Plant Nutrition Management

Post Harvest Solutions















LAND PREPARATION & SOIL HEALTH

Land Preparation & Soil Health

Helps in replenishing soil quality, increasing crop vigor, crop quality & yield



STERAMEAL

Technical details: Concentrated organic manure blended with animal origin

Mode of Use: Basal Soil Application

Major Crops: Grapes, Apple, Pomegranate, Cashew, Mango, Black Pepper, Banana, Coconut, Sugarcane, Rubber, Coffee,

Cardamum, Paddy, Vegetables, Chillies & all crops

Benefits:

- 1. Availability of Plant nutrients (N:P:K) for a longer time
- 2. Improves quality, quantity and keeping quality of fruits
- 3. Enhances microbial activity, humus content, water holding capacity and aeration of soil

Dose/acre:

For Field crops & Vegetables: 200-250 Kg For Fruits & Plantation: 800-1000 Kg



SOILSTAR

Technical details: Unique granular biostimulant which prompts the growth of plants in the early stage of Crop cycle. It consists Silica Solubilizing micro-organism, Prebiotics, Probiotics & Vitamins, Ferment derivative of Marine Algae, Humic & Fulvic substances and Amino Acids.

Mode of Use: Soilstar should be used by mixing with Fertilizers / Biofertilizers / Micronutrients / Cakes / Compost manure

Major Crops: Suitable for All crops

Features:

- 1. Helps in better absorption and use of Silica present in the soil
- 2. Helps in growth and development of beneficial microorganisms found in the soil
- 3. Helps in the better absorption of nutrients and the better establishment of the crops in the early stage

Benefits:

- 1. It helps in the development of strong root system and the plant develops capacity to fight diseases and drought
- 2. Microorganisms present in the soil can work better
- 3. Superior quality & yield

Dose/acre: 3-6 Kg in all the applications

ADJACENT TECHNOLOGIES (UPDT)

ADJACENT TECHNOLOGIES (UPDT)

Revolutionary technology which helps withstand crop for longer duration in drought times



UPDT

Technical details: Natural Cellulose based biodegradable Super Adsorbent technology which is made up from Natural Corn Starch

Mode of Action:

- 1. Greater water absorption capacity
- 2. "Loose" hydrogen bond, providing superior "water release"

Major Crops: Suitable with all crops

Features:

- 1. Increases soil porosity and structure
- 2. Absorbs more than 500 times its weight in water, and releases upto 95% of held moisture back to the plant. Will hydrate and re-hydrate over and over throughout a growing season (subject to soil type, temperature, moisture)

Benefits:

- 1. Improves Water & Nutrient Efficiency
 - a. Increases soil moisture content, retention and supply to vegetation
 - b. Increases Soil porosity for improved passing water and oxygen
 - c. Keeps plants cooler, increasing photosynthesis rate
 - d. Helps plant to protect leaching effect of nutrients thereby increasing nutrient uptake
- 2. Increases Crop Yield
 - a. Increases plant quality and yields
 - b. Improves plant survival rate during critical development periods
 - c. Greatly improves rate of seed germination and emergence
 - d. Eliminates moisture stress in plants, creating larger plant biomass
 - e. Creates more rigorous root development
 - f. Improves plant survival rate during transplanting
- 3. Environmentally, Socially, Economic responsible
 - a. Biodegradable and safe for all plants and vegetables

Dose/acre: 5 Kg

SEED TREATMENT

SEED TREATMENT

Protect seeds & seedlings from diseases & to fight pests



BATTALION FS

Technical Name : Thiamethoxam 30% FS **Mode of Action :** Systemic Insecticide

Major Crops: Cotton, Sorghum, Okra, Maize, Wheat, Rice, Sunflower, Chilli, Soybean, **Target Pests**: Jassid, Aphids, Whitefly, Shoot fly, Termites, Thrips, Stem Fly, Whorl Maggot

Dose for Seed Treatment: 3 ml / Kg of seeds



OUICKPER

Technical Name: Carbendazim 12% + Mancozeb 63% WS

Mode of Action: Systemic and Contact Fungicide

Major Crops: Groundnut

Target Disease: Collar rot, Dry Root rot, Tikka leaf spot

Dose for Seed Treatment: 2.5 g / Kg of seeds



SEED TEC

Technical Name: Tebuconazole 2% DS Mode of Action: Systemic Fungicide Major Crops: Wheat, Groundnut

Target Disease: Loose smut, Flag smut, Collar rot, Root rot, Stem rot

Dose for Seed Treatment: 1 g / Kg of seeds

HERBICIDE

HERBICIDE

Enable farmer to produce more yield with minimal losses from Weeds



PATELA

Technical Name : Sodium Acifluorfen 16.5% +

Clodinafop-Propargyl 8% EC

Type: Selective post emergence Herbicide

Mode of Action : Selective contact

Major Crops: Soybean

Target Weeds : Echinochloa spp., Eleusine indica, Digitaria sanguinalis, Dactyloctanium aegyptium, Acalypha indica, Digeria arvensis,

Euphorbia spp. **Dose/acre:** 400 ml



SWACHH

Technical Name : Pretilachlor 6% + Pyrazosulfuron-ethyl 0.15% GR

Type: Selective pre-emergence Herbicide **Mode of Action**: Inhibition of acetolactate

synthase

Major Crops: Transplanted Paddy

Target Weeds: Echinochloa crusgalli.

Echinochloa colonum, Eclipta alba, Cyperus iria, Cyperus difformis, Fimbristylis miliacea

Dose/acre: 4 kg



TEFU

Technical Name: Quizalofop-p-tefuryl 4.41% EC

Type: Selective Post emergence Mode of Action : Systemic Major Crops : Soybean, Cotton

Target Weeds: Echinocloa spp, Dinebra arabica, Digitaria sanguinalis, Cynodon dactylon,

Hemarthria compressa, Elusine indica.

Dose/acre: 400 ml



AUDI

Technical Name: Pyrazosulfuron Ethyl 10% WP **Type**: Selective and pre-emergence Herbicide

Mode of Action : Systemic
Major Crops : Paddy

Target Weeds: Cyperus iria, Cyperus difformis, Fimbristylis miliacea, Monochoria Vaginalis,

Ludwigia parviflora

Dose/acre: Main field - 80 g, Nursery - 20 g/Kanal*

*1 Kanal = 505.85 m^2 or 1/8 th of acre



INSTANT

Technical Name: Chlorimuron Ethyl 25% WP

Type: Selective Post emergence Mode of Action : Systemic Major Crops : Rice, Soybean

Target Weeds: Rice (Transplanted): Echinochlora crusgali, Eclipta alba, Commelina benghalensis, Chenopodium album, Cyperus rotundus. Soybean: Phyllanthus niruri, Celosia argentia, Cyperus rotundus, Digera arvensis, Cucumis trigonus, Cyperusiria, Parthenium hysterophorus, Acalypha indica, Trianthem aportulacastrum, Commelina benghalensis, Caesulia axillaris

Dose/acre: 15 gm



RICEBAC

Technical Name: Bispyribac Sodium 10% SC **Type**: Broad Spectrum Systemic, Post Emergent

Herbicide

Mode of Action: Inhibits essential amino acid

synthesis

Major Crops: Rice

Target Weeds: Major grasses, sedges and broad

leaf weeds of rice

Dose/acre: 80 ml

HERBICIDE

Enable farmer to produce more yield with minimal losses from Weeds



SANDESH

Technical Name: Clodinafop propargyl 15%+

Metsulfuron methyl 1% WP

Type: Broad spectrum selective (Post emergent) Herbicide

Mode of Action: Inhibition of amino acid and

lipids production

Major Crops: Wheat

Target Weeds: Phalaris minor, Chenopodium Spp., Medicago denticulata, Coronopos dedymus, Rumex

spp. Melilotus alba, Anagallis arvensis.

Dose/acre: 160 g (Sandesh) +

500 ml (Surfactant)



SATASAT

Technical Name: Sulfosulfuron 75%+ Metsulfuron

methyl 5% WG

Type: Post emergent, selective Herbicide

Mode of Action: Amino acid biosynthesis inhibitor

Major Crops: Wheat

Target Weeds: Phalaris minor, Rumex spp.

Chenopodium spp., Medicago denticulata, Coronopos

dedymus, Melilotus alba, Anagallis arvensis

Dose/acre: 16 g (Satasat) +

500 ml (Surfactant)



CLOMET

Technical Name: Metribuzin 42%+ Clodinafop-

propargyl 12 % WG

Type: Post emergence, selective Herbicide

Mode of Action: Lipid formation inhibitor &

Photosynthesis inhibitor

Major Crops: Wheat

Target Weeds: Phalaris minor, Rumex spp, Avena Spp,

Chenopodium album, Melilotus Spp, Medicago

denticulate. Anagallis arvensis

Dose/acre: 200 g (Clomet) + 500 ml (Surfactant)



TOPPLE

Technical Name: Clodinafop proparqyl 15% WP

Type: Selective post-emergent Herbicide

Mode of Action: Systemic-Lipid

biosynthesis blocker

Major Crops: Wheat

Target Weeds: Phalaris minor

Dose/acre: 160 g



PANDORA

Technical Name: Pendimethalin 38.7% CS

Type: Selective & Pre-plant incorporation

Herbicide

Mode of Action: Cell division inhibitor

Major Crops: Soybean, Cotton, Chilli, Onion

Target Weeds: Echinochloa colonum.

Digitaria sanguinalis, Dactyloctinum aegyptium,

Amaranthus viridis, Euphorbia geniculata

Dose/acre: 600-700 ml



SWAL PENDI

Technical Name: Pendimethalin 30 % EC

Type: Pre-emergence and Selective Herbicide

Mode of Action: Cell division inhibitor

Major Crops: Soybean, Cotton, Paddy, Wheat

Target Weeds: Echinochloa spp., Euphorbia spp.,

Amarnanthus viridis. Portulaca oleracea.

Trianthema Spp., Eleusine indica

Dose/acre : 1-1.6 /

HERBICIDE

Enable farmer to produce more yield with minimal losses from Weeds



WEEDSTAR AMINE

Technical Name: 2, 4 - D Amine Salt 58% SL Type: Selective, Post emergence Herbicide

Mode of Action: Systemic

Major Crops: Sugarcane, Wheat, Majze, Potato.

Sorahum

Target Weeds: Commelina bengalensis,

Cyperusiria, Chenopodium album, Melilotus alba, Polygonum spp., Digitaria Spp.

Dose/acre: 500-1000 ml



FERIO

Technical Name: Glufosinate ammonium 13.5% SL

Type: Non Selective post emergent Herbicide

Mode of Action: Contact Major Crops: Cotton. Tea

Target Weeds: Cotton- Echinchloa sp., Cynodon dactylon, Cyperusrotundus, Digitariamarginata, Dactylote neumaegyptium, Tea-Imperatacylindrica, Panicumrepens, Commelina benghalensis, Ageratum convzaides. Eleusine indica. Paspalum conjugatum

Dose/acre: 1-1.32 ltr



METRISTAR

Technical Name: Metribuzin 70% WP

Type: Selective herbicide Mode of Action: Systemic

Major Crops: Soybean, Wheat, Sugarcane,

Tomato, Potato

Target Weeds: Digitaria spp., Phalaris minor, Chenopodium album, Melilotusspp, Cyperus esculentus, C. campestris,

Borreriasp, Eragrostis spp. **Dose/acre**: 100-300 g



STARWIN

Technical Name: Imazethapyr 10% SL Type: Selective, Post emergence Herbicide

Mode of Action: Systemic-Acetolactate synthase

(ALS) inhibitor

Major Crops: Soybean & Groundnut

Target Weeds: Echinochloa spp., Euphorbia hirta,

Digeria arvensis, Cyperus difformis

Dose/acre: 400-600 ml



PERAGO

Technical Name: Pendimethalin 38.4% +

Pyrazosulfuron ethyl 0.85% ZC **Type:** Selective Post emergence Mode of Action: Systemic Major Crops: Transplanted Rice

Target Weeds: Echinochloa colona (Wild rice),

Echinochloa crusgalli (Banyyard grass), Panicum repens (Bullet grass),

Eleusine indica (Indian goosegrass). Marsilea quadrifolia (Common water clover),

Eclipta alba (False daisy),

Ludwigia parviflora (Water crest), Alternanthera philoxeroides (Alligatorweed), Alternenthera sessalis (Dwarf copper leaf). Ammania baccifera (Monarch redstem), Monochoria vaginalis (Pickerel weed), Leptochloa chinensis (Red sprangle top), Cyperus difformis (Common sedge),

Cyperus iria (Umbrella sedge). Fimbristylis miliacea (Hoorah grass),

Cyperus spp.

Dose/acre: 800 ml

FUNGICIDES

FUNGICIDES

Enable farmer to produce more yield with minimal losses from Diseases



DELMA

Technical Name: Azoxystrobin 8.3% + Mancozeb 66.7% WG

Mode of Action: Contact and Systemic Fungicide with Multisite action and Raincoat

technology

Major Crops: Chilli, Grapes

Target Diseases: Leaf Spot, Downey Mildew,

Anthracnose, Powdery Mildew **Dose/acre:** 600 gm or 3gm/Ltr water



STARGEM PLUS

Technical name: Mancozeb 75% WDG

Mode of Action: Contact

Major Crops: Potato, Tomato, Apple

Target Diseases: Potato-Late Blight, Tomato-Early Blight, Apple-Scab, Premature Leaf fall, Alternaria spot/blight, sooty blotch

Dose/acre: 400 g



DEVONA

Technical Name: Copper Sulphate 47.15% +

Mancozeb 30% WDG

Mode of Action: Broad spectrum protectant

fungicide and bactericide.

Major Crops: Grapes

Target Diseases: Anthracnose, Powdery Mildew, Downey mildew

Dose/acre: 2 Kg



TURF

Technical Name: Carbendazim 12 % +

Mancozeb 63 % WP

Mode of Action : Systemic and Contact

Major Crops: Rice, Groundnut, Potato, Tea,

Grape, Mango

Target Disease: Blast, Blight, Blackscurf, Die back, Black rot, Downey mildew, Powdery mildew, Anthracnose and Leaf spot

Dose/Acre: Foliar spray: 200-600 g

Seed Treatment: 2.5 g/kg of seeds



STARGEM 45

Technical Name: Mancozeb 75% WP

Mode of Action: Contact

Major Crops: Wheat, Maize, Paddy, Chilli, Potato, Tomato, Groundnut, Graps, Banana, Apple &

umin.

Target Diseases: Rust, Blight, Downy mildew,

Blast and Leaf spot

Dose/acre: Foliar spray: 600-800 g

Seed Treatment: 3 g/Kg of seeds



RADOSTAR

Technical name: Tebuconazole 10% +

Sulphur 65% WG

Mode of Action: Systemic & Contact
Major Crops: Chilli, Soybean

Target Pests: Powdery mildew, Fruit rot,

Leaf spot & Pod blight

Dose/acre: 500 g

FUNGICIDES

FUNGICIDES

Enable farmer to produce more yield with minimal losses from Diseases



NAUTEC

Technical Name: Zineb 75% WP

Mode of Action: Contact

Major Crops: Paddy, Wheat, Onion, Potato, Tomato, Chillies, Brinjal, cumin, Apple, Citrus,

Grapes and Guava

Target Diseases: Blast, Rust, Blight, Downy mildew, Fruit rot, Leaf spot, Anthracnose and

Scab

Dose/acre: 600-800 g



STARBENZ

Technical Name: Carbendazim 50 % WP **Mode of Action**: Systemic and Protective **Major Crops**: Paddy, Wheat, Maize, Cotton,

Chilli, Apple and Grapes

Target Disease: Blast, Sheath blight, Loose smut, Powdery mildew, Anthrachose, Scab,

Damping off

Dose/acre: Foliar spray 100-120 g

Seed Treatment: 2g / Kg of seeds



FAIDA

Technical Name: Captan 70% +

Hexaconazole 5% WP

Mode of Action: Contact and Systemic

Major Crops: Potato, Chilli

Target Disease: Early Blight and Late Blight,

Fruit Rot(Anthracnose) **Dose/acre:** 200-400 gm



STARCOP

Technical Name: Captan 50% WP **Mode of Action:** Non Systemic-Contact **Major Crops:** Grapes, Potato, Cherry,

Tomato, Apple

Target Diseases: Downey Mildew, Late Blight,

Early Blight, Brown Rot, Apple Scab

Dose/acre: 1 Kg



VANDEX

Technical Name: Validamycin 3% L

Type: Antibiotic

Mode of Action: Non-systemic antibiotic

with fungistatic action

Major Crops: Paddy

Target Disease: Sheath Blight

Dose/acre: 800 ml



STARSULF

Technical Name: Sulphur 80 % WG

Mode of Action: Contact

Major Crops: Apple, Grape, Mango,

Pulses, Cumin

Target Diseases: Powdery mildew **Dose/acre**: Foliar Spray - 500-1000 g

Soil application - 3 to 5 Kg



TRISTAR

Technical Name: Tricyclazole 75 % WP

Mode of Action : Systemic Major Crops : Rice Target Diseases : Blast Dose/acre : 120-160 g

INSECTICIDES

INSECTICIDES

Enable farmer to produce more yield with minimal losses from insect pest



STARTHENE

Technical Name: Acephate 75% SP **Mode of Action**: Contact and Stomach

action

Major Crops: Cotton, Paddy, Vegetables **Target Pests**: Aphids, Jassids, Mealy bug,
BPH, GLH, Stem borer, Leaf folder, Bollworm

Dose/acre: 350-500 g



MONOSTAR

Technical Name: Monocrotophos 36% SL Mode of Action: Contact & Stomach Major Crops: Paddy, Maize, Cotton, Tea, Pulses, Mustard, Citrus, Mango

Target Pests: BPH, GLH, Yellow Stem borer, Leaf roller/folder, Aphids, Thrips, Whitefly

Dose/acre: 350 ml



STARTHENE POWER

Technical Name: Acephate 50%+

Imidacloprid 1.8% SP

Mode of Action: Systemic, Contact and

Stomach action

Major Crops: Cotton, Paddy, Vegetables **Target Pests**: Jassids, Aphids, Thrips, Whitefly, Leaf minor, Mealy bug, BPH

Dose/acre: 500 g



PANAMA

Technical Name: Flonicamid 50% WG **Mode of Action**: Systemic and stomach

Major Crops: Cotton, Paddy

Target Pests: Aphids, Jassids, Whitefly,

BPH, WBPH, GLH **Dose/acre**: 80 q



STARTHENE SUPER

Technical Name: Acephate 95% SG
Mode of Action: Inhibition of Enzyme
Acetylchlonesterase in Nervous System
Major Crops: Paddy, Cotton, Chilli, Vegetable
Target Pests: Aphids, Jassids, Thrips

Dose/acre: 330 am



ACENTHRIN

Technical name: Acenthrin 50% +

Bifenthrin 10% WDG

Mode of Action: Systemic & Contact

Major Crops: Cotton

Target Pests: Leaf Hopper, Aphid, Thrips, American

Bollworm, Pink Bollworm

Dose/acre: 320 g



HAMOR

Technical name: Novaluron 5.25% + Emamectin benzoate 0.9% SC

Mode of Action: Broad Spectrum Contact &

Stomach insecticide

Major Crops: Red Gram, Rice, Cabbage, Chilli Target Pests: Gram pod borers, Stem borer, Diamond back moth, Tobacco caterpillars

Dose/acre: 350-600 ml



NOVACODE

Technical name: Novaluron 5.25% + Indoxacarb

4.5% SC

Mode of Action: Broad Spectrum Contact &

Stomach insecticide

Major Crops: Tomato

Target Pests: Fruit Borer and Leaf eating

caterpillar

Dose/acre: 330-350 ml

INSECTICIDES

INSECTICIDES

Enable farmer to produce more yield with minimal losses from insect pest



STARCLAIM

Technical Name: Emamectin benzoate 5% SG

Mode of Action: Contact & Stomach

Major Crops: Cotton, Chilli, Tomato, Pulses,

Okra, Brinjal, Cabbage, Grapes

Target Pests: Heliothis, Spodoptera, DBM, Thrips

Dose/acre: 100 g



STARMITE

Technical name: Bifenazate 22.6% SC

Mode of Action: Contact
Major Crops: Rose & grape

Target Pests: Two Spotted Mite, Mite

Dose/acre: 200 ml



DSP-99

Technical Name: Clorfluazuron 5.4% EC

Mode of Action: Inhibition of Chitin

Synthesis (IGR)

Major Crops: Cabbage, Cotton

Target Pests: DBM, Heliothis, Spodoptera,

Dose/acre: 800 ml



PROPAMITE

Technical name: Propargite 57% EC

Mode of Action: Contact

Major Crops: Tea, Chillies, Apple & Brinjal **Target Pests:** Red Spider Mite, Pink Mite,

Purple Mite, Scarlet Mite, Mite,

European Red Mite, Two spotted Red Mite

Dose/acre: 300-600 ml 5-10 ml/Apple tree



RELAY 101

Technical Name: Cypermethrin 3% +

Quinalphos 20% EC

Mode of Action : Contact & Stomach

Major Crops: Brinjal, Cotton

Target Pests: Shoot & fruit borer, American

bollworm, Spotted bollworm, Jassid

Dose/acre: 250-500 ml



MIT PLUS

Technical Name: Ethion 40% + Cypermethrin 5% EC

Mode of Action: Stomach and contact
Major Crops: Cotton, Chilli, Pulses, Tea
Target Pests: Mites, Thrips, Whitefly,
Pod borer, American Bollworms, Heliothis &

Spodoptera

Dose/acre: 400-500 ml



HECTASTAR

Technical Name: Bifenthrin 10 % EC **Mode of Action**: Contact & Stomach

Major Crops: Cotton, Rice

Target Pests: Bollworm, Whitefly, GLH, Leaf folder

Dose/acre: 350 ml



MIT 505

Technical Name: Ethion 50 % EC **Mode of Action**: Contact insecticide

Major Crops: Cotton, Chilli, Gram, Tea, Soybean

Target Pests: Mites, Thrips, Whitefly,

Pod borer, Bollworms **Dose/acre**: 500 ml

INSECTICIDES

INSECTICIDES

Enable farmer to produce more yield with minimal losses from insect pest



KABUKEY

Technical Name: Flubendiamide 20% WG **Mode of Action:** Muscle contraction with

contact and stomach action

Major Crops: Cotton, Tomato, Red Gram,

Paddy, Cabbage & Pulses

Target Pests: American bollworm, Fruit borer, Pod borer, Stem borer Leaf folder, DBM

Dose/acre: 80-100 g



DOUBLE STAR

Technical Name : Chlorpyriphos 50% +

Cypermethrin 5% EC

Mode of Action: Contact and Stomach

Major Crops: Cotton, Paddy,

Target Pests: Aphids, Whitefly, Jassids, Thrips, Spodoptera, Spotted, American, Pink Bollworm,

Stem borer, Leaf folder, **Dose/acre**: 300-400 ml



BATTALION

Technical Name: Thiamethoxam 25% WG

Mode of Action: Systemic, Stomach and Contact

Major Crops : Cotton, Paddy, Okra, Tomato, Brinjal, Wheat, Mustard, Potato, Mango, Tea, Citrus

Target Pests: Jassids, Aphids, Whitefly,

BPH, WBPH **Dose/acre**: 100 g



STARBAN 10 G

Technical name: Chloropyriphos 10% GR **Mode of Action:** Contact and Stomach poison

Major Crops: Rice

Target Pests: Stem Borer, Leaf Roller, Gall Midge

Dose/acre: 4 Kg



IMIDASTAR

Technical Name: Imidacloprid 17.8 % SL **Mode of Action**: Stomach and Contact **Major Crops**: Cotton, Paddy, Vegetables, Sugarcane, Groundnut, Mango, Grape, Citrus **Target Pests**: Jassids, Aphids, BPH, GLH,

Termites (Soil drenching)

Dose/acre: 100 ml



STARTOP

Technical Name: Cartap Hydrochloride 4% GR **Mode of Action**: Systemic, Contact and Stomach

action

Target Crop: Rice

Target Pests: Stem borer, Leaf folder and Whorl

maggot

Dose/acre: 8 Kg



REMOSTAR

Technical Name: Novaluron 10% EC

Mode of Action: Stomach and Contact

Major Crops: Cotton, Cabbage, Tomato, Chilli,

Bengalgram

Target Pests: American Bollworm, Fruit-Pod Borer, Diamond Back Moth, Tobacco Caterpillar

Dose/acre: 300 ml

NUTRITION & BIOLOGICAL

NUTRITION & BIOLOGICAL

Essential for plant growth in critical stages & also play an important role in balanced crop nutrition

Foliar fertilization involves the application of soluble fertilizer to the foliage of crop plants, in the form of a diluted aqueous spray. From the applied solution, the plant takes up the nutrients in ionic form, through the leaves and other aerial organs. Supplying plants with adequate nutrition is an important aspect of maintaining their health and performance, and foliar sprays have been used for a long time as a source of the necessary nutrients. Foliar sprays can give your crops a nutritional boost that results in increased yields higher quality, improved resistance to pest attack, and enhanced drought tolerance.



WUXAL® MACROMIX

Technical details: The suspension with the well-balanced NPK 16-16-12 ratio (percent w/v) on a high level and accomplete supply of micronutrients (B - 1%, Chelated Zn - 1%, Chelated Co - 0.0008%, Chelated Cu - 0.0212%, Chelated Fe - 0.0437%, Chelated Mn - 0.0367% & Mo - 0.0028%)

Mode of Use: Foliar

Major crops: Field crops, vegetable crops, pulse crops, oilseeds crop, fodder crops, fruit crops, spices crop, flower crops and medicinal crops.

Benefits:

- High and well-balanced macro& micro nutrient supply matching the demand of crops during critical growth stages
- 2. Applications independent of the weather conditions due to plant-compatible additives
- 3. Super chelation reduces the water hardness of the spray solution
- 4. Fully EDTA chelated cationic micronutrients
- 5. Excellent coverage of leaves, good adhesiveness and regulates pH of the spray solution
- 6. Ensures excellent nutrient penetration
- 7. Compatible with most commonly used pesticides
- 8. Boost and retain flowering, reduce flower dropping
- 9. Helps in breaking dormancy (eg- mango)
- 10. If it used after harvest, then it helps to overcome alternate bearing

Dose/acre:

For field crops, vegetable crops, pulse crops, oilseeds crop, and fodder crops @ 500 - 750 ml/acre. For fruit crops, spices crop and flower crops @ 5 - 7 ml/Ltr water.

NUTRITION & BIOLOGICAL

NUTRITION & BIOLOGICAL

Essential for plant growth in critical stages & also play an important role in balanced crop nutrition



WUXAL® CALCIUM

Technical details: Well balanced, highly effective and safe Calcium supply for foliar nutrition of top fruits and vegetables, significantly enhancing shelf life and fruit quality (N-10%, CaO - 15%, MgO- 2% + B - 0.05%, Chelated Cu - 0.04%, Chelated Fe - 0.05%, Chelated Mn - 0.1%, Mo - 0.001% & Chelated Zn - 0.02%).

Mode of Use: Foliar

Target Crops: Field crops, vegetable crops, pulse crops, oilseeds crop, fruit crops, spices crop and flower crops.

Benefits:

- 1. Bio-effective additives for weather-independent uptake of calcium and all other nutrients
- 2. Calcium supply plus foliar nutrition with nitrogen, magnesium and a high micronutrient content
- 3. Significantly higher calcium efficiency than traditional single calcium salt sprays
- Has none of the disadvantages of common calcium sprays such as phytotoxicity at certain stages of growth, temperatures, or unsatisfactory compatibility with pesticides
- 5. Fully chelated cationic micronutrients for excellent
- 6. Absorption and translocation in the plants
- 7. Compatible with most commonly used pesticides
- 8. Helps in fruit retention & improve fruit quality with uniform fruit size (top to bottom of plant)

Dose/acre:

- For field crops, pulse crops, oilseeds crop, and vegetable crops @ 500 – 750 ml/acre
- For fruit crops, spices crop and flower crops @ 5-7 ml/Ltr water



WUXAL® POTASSIUM

Technical details: The well balanced and high efficient potassium suspension for all crops (N- 6%, K20 - 18%, Ca0 - 5%, MgO - 2% + B - 1.0%, Chelated Cu - 0.05%, Chelated Fe - 0.1%, Chelated Mn - 0.05%, Mo - 0.001% & Chelated Zn - 0.05%).

Mode of Use: Foliar

Major Crops: Field crops, vegetable crops, pulse crops, oilseeds crop, fruit crops, spices crop and flower crops.

Benefits:

- 1. High potassium content improves inner and outer quality of specialty crops with high K-requirements
- 2. Optimal wetting and rain fastness
- 3. No powder fluid product
- 4. Super chelation improves the quality of the spray solution
- 5. Nutrients readily available to plants
- 6. Fully chelated cationic micronutrients
- 7. Improves resistance of flowers to frost
- 8. Improve sugar content of the fruits.
- 9. Improves disease resistance
- 10. Particularly indicated for sandy and K-fixating soils as well as during dry spells
- 11. Compatible with most commonly used pesticides
- Helps in fruit retention, improve fruit keeping quality (shape, shine & color) with uniform fruit size (top to bottom of plant)

Dose/acre:

- For field crops, pulse crops, oilseeds crop, and vegetable crops @ 500 – 750 ml/acre
- For fruit crops, spices crop and flower crops @ 5 7 ml/acre

NUTRITION & BIOLOGICAL

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Essential for plant growth in critical stages & also play an important role in balanced crop nutrition



PLANTONIK

Technical details: Seaweed Filtrate with : Weight (w/w %) Ascophyllum nodosum: 96.22%

Mode of Use: Foliar

Major Crops: Suitable for all crops

Benefits:

- 1. Influence fruit setting and differentiation fruit and limit flower drop.
- 2. It Increases uniformity due to better reproduction physiology.
- Activates plant nutrition pathways resulting in more effective uptake of nutrients and water from the soil.
- 4. Activates endogenous polyamines synthesis in generative parts of plant

Dose/acre: 240 ml



STARWET GOLD

Technical details: Trisiloxane Alkoxylates

Mode of Use: Should be used as tank mix with Pesticides,

PGR's & Nutrients.

Major Crops: Suitable for all crops

Benefits:

- The ideal tank-mix partner for pesticides, PGRs and nutrients
- Excellent spreading and coverage of treated plants promote higher efficacy and reduce spray volumes.
- 3. Economically favourable ratio of performance/cost

Dose/acre: 50 ml



K-FOL

Technical Details: NPK 00: 20: 55, Nitrogen: 0.0%, Phosphate as P205: 20%, Potash K20: 55%

Mode of Use: Foliar & Drip

Major Crops: Tomato, Chilli, Rice, Cucurbits, Eggplant, Potato, Soya, Cereals and Fruits Trees

Benefits:

- It helps to recover the deficiency of potash, its first appears as a yellowing of the older leaves' sides and tips, young leaves are last to show these symptoms.
- It is compatible with most of fungicides, herbicides, insecticides and other foliar fertilizers
- 3. Ensures good fruit size, quality & regularity
- 4. Helps in regulation of Transpiration
- 5. Increases Plant resistance to diseases

Dose/acre: Foliar 0.4-0.8 Kg, Drip 1.6-2 Kg



RAIZAL

Technical details: NPK 09: 45: 11, Nitrogen: 9.0%, Phosphate as P205: 45.0%, Potash K20: 11.0%

Mode of Use: Foliar & Drip

Major Crops: Tomato, Chilli, Onion, Rice, Cucurbits, Beans, Pea, Groundnut, Eggplant, Wheat, Corn, Potato, Sugarcane, Grapes and Fruits Trees, Flowers

Benefits:

- It enhances root development and faster more vigorous growth.
- 2.It also helps seedlings/nursery overcome transplant shock

Dose/acre: Foliar 0.4-0.8 Kg, Drip 1.6-2 Kg

POST-HARVESTSOLUTIONS

POST-HARVESTSOLUTIONS

Prevent post-harvest losses from store grain pests



SAFESILO

Technical Name : Aluminium Phosphide

15% Tablet

Mode of Action : Fumigant

Target Pests: Stored Grain pests **Dose**: 12 gm tablet / 250 kg of

stored grains



RAT FREE

Technical Name : Zinc Phosphide 80%

Mode of Action : Anti-coagulant

Target Pests: Rodents

Dose: 10 g / 1 Kg of grain bait



SAFESILO PLUS

Technical Name: Aluminium Phosphide 56% (F)

Mode Of Action: Furnigant
Major Crops: Stored Grains
Target Pests: Stored Grain Pests
Dose: 10 Gram per 1 Quintal Seed

SAFE USE OF PESTICIDES



Do not transport pesticides along with food stuff



Store under lock and kew



Keep out of reach of children



Buy pesticides in original packing



Read leaflet and Label before use



Wear protective clothing



Measure recommended quantity



Mix thoroughly in water using stick



Use funnel and fill without spillage



Do not use pesticide containers for food or water



Spray along the wind



Do not smoke, drink or eat while spraying



Do not blow with your mouth to clean the nozzle



Do not use leaky OR damaged sprayer



In case of contamination wash thoroughly the clothes and body



Do not allow the children to spray



Do not keep the food stuff near the site of application



Wash hands and mouth before eating, drinking or smoking



Give first aid in case of accidental poisoning



Show leaflet and container



Get immediate expert treatment



Destroy and bury empty containers



Take bath and



contamination



in treated area

- Never ever by mistake use pump for spraying herbicide to spray Insecticides.
- Essentially use protective clothing, boot, hand-gloves and face-mask while
- The content of a container on which a red coloured kite shape is marked, is extremely toxic, followed by a series of Yellow, Blue and Green colours. All these signs are used to explain to illiterate people. This means that, pesticide with Green coloured mark is slightly toxic.

Precautions must be ensured with the following individual:

- If pesticide is ingested or falls on skin, in eyes or is inhaled, it may cause hazard.
- If any person is toxically affected he must be removed away from the place incident and his clothes must be changed.
- Immediately wash body/ limbs with soap and clean water and dry up with a towel.
- If pesticide is ingested, immediately strive to make the patient vomit it out.
- If the patient is profusely sweating, dry it up with a dry towel.
- If the patient experiences cold, wrap a sheet around his body.
- If breathing of the patient has turned abnormal or has stopped, initiate mouth to mouth resuscitation.
- If the patient has spasm, push a soft thin cloth between his teeth.
- If the patient is unconscious, make efforts to bring him to senses.
- Do not try to give anything to eat to an unconscious patient.
- Immediately refer the patient to a doctor along with the label / leaflet of the pesticide or get him admitted in a hospital and get him treated under the supervision of a doctor.

Precautions to be taken while spraying:

spraying.

TOXICITY IDENTIFICATION AND SIGNS OF PESTICIDES Highly Toxic Extremely Toxic Moderately Toxic Slightly Toxic DANGER CAUTION POISON

For more information, contact specialist of an Agricultural Universities, Agricultural Officer OR Officer of the Company and Medical Officer/Doctor



SWAL - SERVING THE NATION



DEPOT CORPORATE OFFICE OZONAL OFFICE

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Disclaimer: This Product Manual is provided for reference purposes only. We recommend to always read and follow label directions for the use of specific product. The information and any recommendations in this manual are presented based on field trials and SWAL Corporation Limited makes no warranty as to the completeness or accuracy of the information and in no event will be responsible for damages of any nature, whatsoever, resulting from the use of or reliance on this information.